

PCB  
CL waste

9-24-84

Boeing cleanup their SD 300-350 drums to Arlington Cr.  
6-7 days hydraulically or dry  
\$35,000 + \$45,000  
\$80,000

CL offer their dry cleaning equipment  
EPA will want monitor plan  
② find source

CL doing more testing then will clean up soil  
need to plug CB & later divert to south 18" SD

Boeing cleanup <sup>will be done</sup> 2-3 weeks from now

---

Tom Hubbard 20 ppm PCB in NW pump house  
160± from drain coming  
from Boeing area

# Laucks

## Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

Chemistry, Microbiology and Technical Services



## Certificate

CLIENT Boeing Co.  
P.O. Box 3707  
Seattle, WA 98124  
ATTN: Kirk Thompson M/S 9A-43

LABORATORY NO. 84717

DATE May 30, 1984

PO #B-315355

REPORT ON SEDIMENT

### SAMPLE IDENTIFICATION

Sampled by us on May 14, 1984 at the Boeing Flight Center, Boeing Field, Seattle, WA.

### TESTS PERFORMED AND RESULTS

The samples were taken with a shovel through a layer of standing water to sediment depth of approximately 0-4".

Samples are identified as shown below:

- 1) Flume at north end of Building 323
- 2) Catch basin at east side of Building 3302
- 3) Manhole at east side of Building 323

	<u>1</u>	<u>2</u>	<u>3</u>
Total Solids, %	38.4	58.4	81.7
	<u>parts per million (mg/kg), dry basis</u>		
Lead	430.	150.	37.
PCBs, Aroclor 1242	ND	60.	5.2
PCBs, Aroclor 1254	520.	66.	9.9

Samples were also analyzed for Gravimetric Polycyclic Aromatic Hydrocarbons in accordance with Washington State Department of Ecology WAC 173-303. The method requires analysis of the sample through successive stages until the result obtained is less than 1% by weight (as received basis) or until the fourth stage has been completed. Results are as shown on following page.



This report is submitted for the exclusive use of the person, partnership, or corporation to whom it is addressed. Subsequent use of the name of this company or any member of its staff in connection with the advertising or sale of any product or process will be granted only on contract. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

KCSlip4 61270

SEA428869

# Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060



Certificate

Chemistry, Microbiology, and Technical Services

PAGE NO 2

Boeing Co.

LABORATORY NO. 84717

Stage:

% by weight, as received basis\*

1: Soxhlet Extraction

<u>1</u>	<u>2</u>	<u>3</u>
.18	.30	.044

\*for 4,5,6 membered rings

Key

ND = None Detected

Respectfully submitted,

Laucks Testing Laboratories, Inc.

*J.M. Owens*  
J. M. Owens

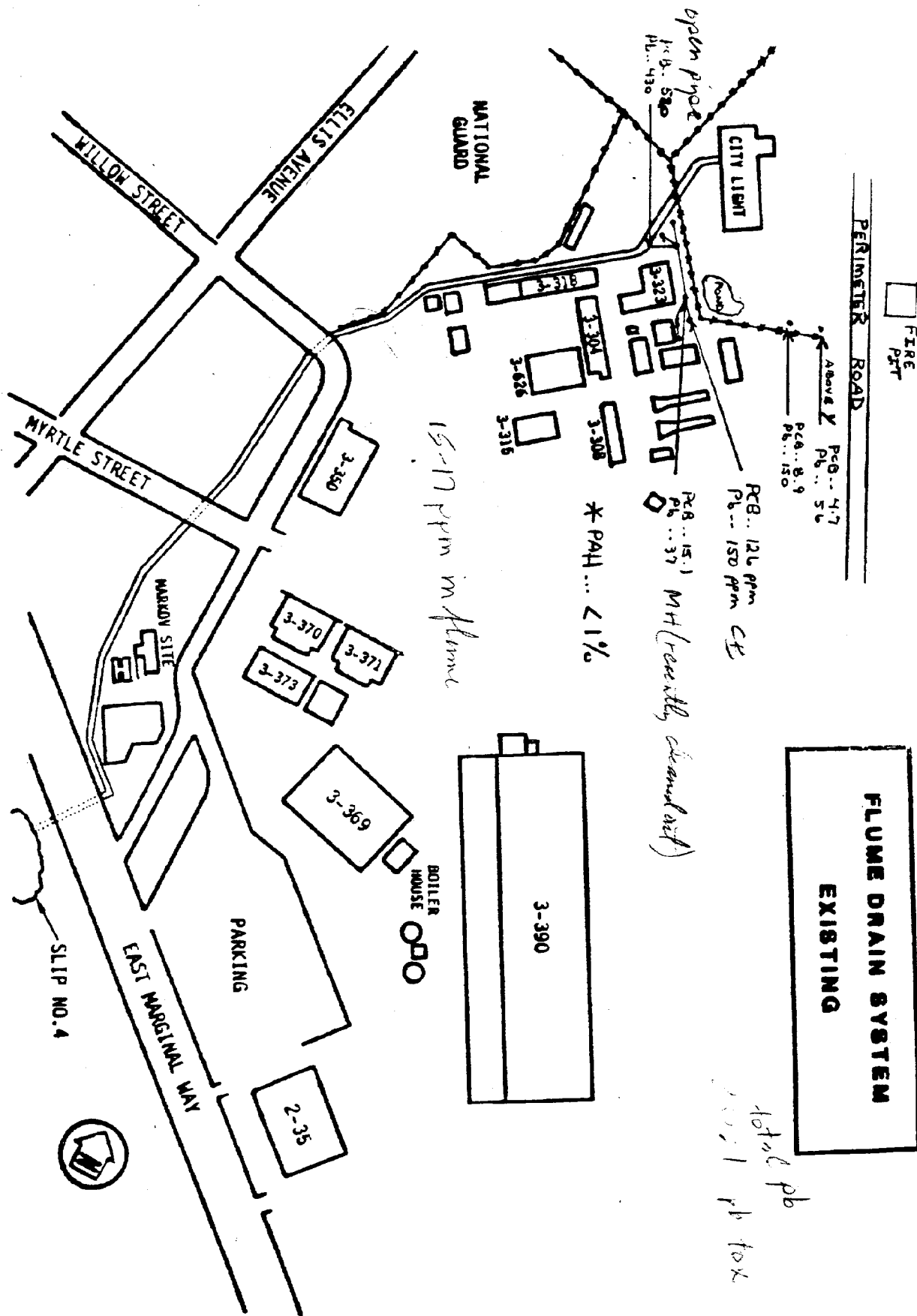
JMO:vb



This report is submitted for the exclusive use of the person, partnership, or corporation to whom it is addressed. Subsequent use of the name of this company or any member of its staff in connection with the advertising or sale of any product or process will be granted only on contract. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

KCSlip4 61271

SEA428870



NORTH BOEING FIELD  
DRILL PIT

N1

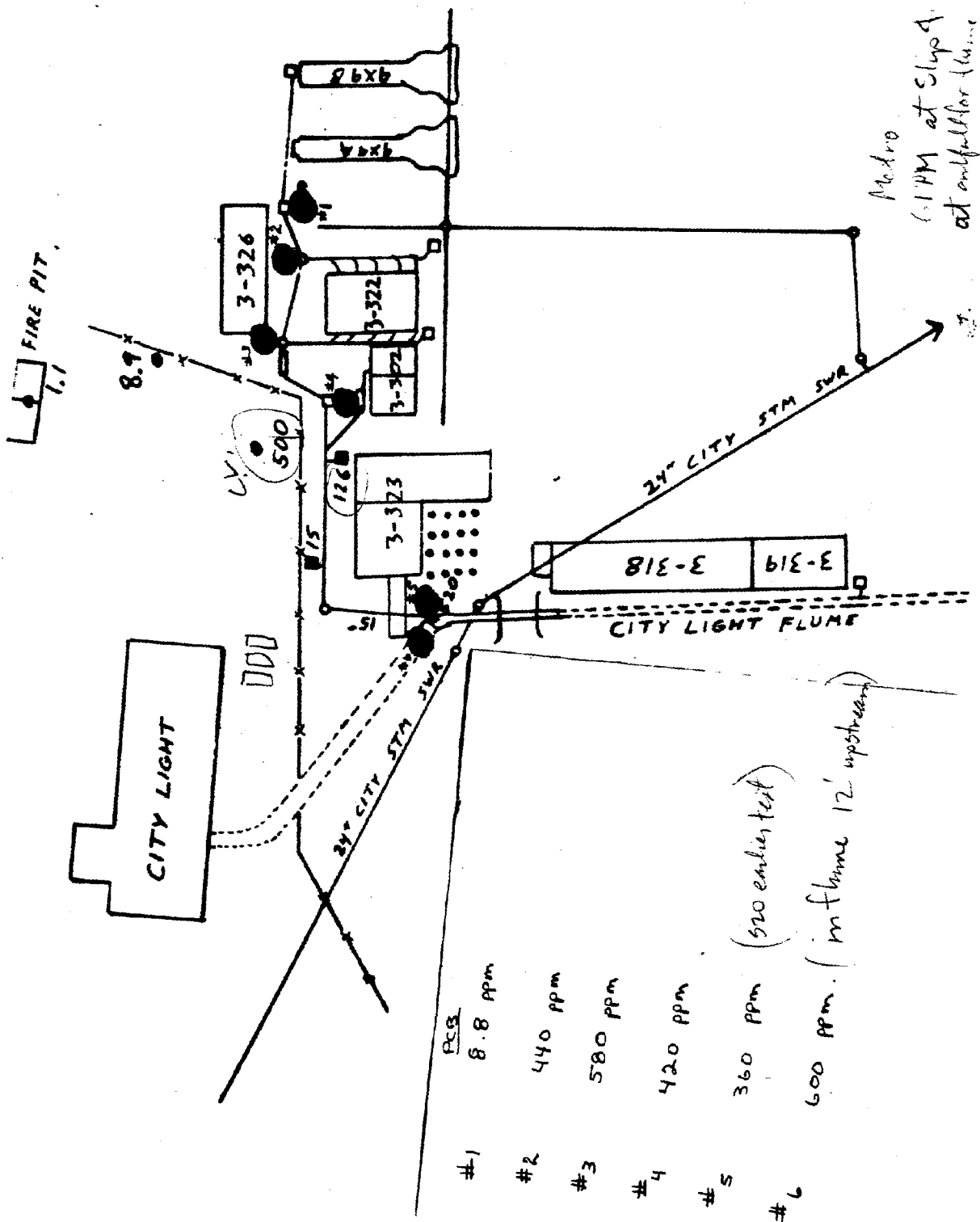
<p>PCB..0.43            (2) Pb ~ 150            PAH.. 0.57%</p>	<p>PCB.. &lt; 0.05            Pb.. 28            (3) DEEP            SAMPLE.            12"-15"</p>
<p>PCB.. 0.61            (1) Pb .. 150</p>	<p>PCB.. 0.48            (4) Pb .. 73</p>
<p>PCB.. 0.3            (2) Pb .. 51</p>	<p>PCB.. 2.5            Pb.. 70            (3)</p>
	<p>PCB.. 0.79            (4) Pb.. 150            PAH.. .74%</p>
	<p>PCB.. 0.89            (1) Pb.. 140</p>

Airport  
 PCB.. 0.  
 Pb.. 36  
 (05)

Summary .. Averages

	<u>PCB</u>	<u>Pb</u>
NORTH END ..	0.38	100
South END ..	1.12	103

\* All data reported in mg/kg.. ppm  
 < = less than.



KCSlip4 61274

SEA428873

# Laucks

## Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

Chemistry, Microbiology and Technical Services



## Certificate

CLIENT Boeing Co.  
P.O. Box 3707  
Seattle, WA 98124  
ATTN: Kirk Thompson M/S 9A-43

LABORATORY NO. 84718

DATE May 30, 1984

PO #B-315355

REPORT ON SEDIMENT

### SAMPLE IDENTIFICATION

Sampled by us on May 14, 1984 at the Boeing Flight Center, Boeing Field, Seattle, WA.

### TESTS PERFORMED AND RESULTS

Samples 1, 2, & 4 were sampled by shovel to a depth of approximately 3 inches and over an area 8" x 8". These samples were taken from under a few inches of standing water. Each sample was mixed well by means of a spatula in a stainless steel box and 1 quart of this material was brought back to the laboratory. Sample #3 was drawn from a depth of 12"-15" using a post hold type digger and scraping the sides of the hole at that depth. The mixing tool and box were rinsed with acetone and deionized water between each sample.

Samples 10 and 11 were surface samples taken with a shovel to a depth of approximately 0-6" over an area of 2 square feet.

Samples are identified as shown below: (see rough sketch of Fire Pit)

- 1) North Fire Pit - Location 1 - 0-3"
- 2) North Fire Pit - Location 2 - 0-3"
- 3) North Fire Pit - Location 3 - 12-15"
- 4) North Fire Pit - Location 4 - 0-3"
- 5) South Fire Pit - Location 1 - 0-3"
- 6) South Fire Pit - Location 2 - 0-3"
- 7) South Fire Pit - Location 3 - 0-3"
- 8) South Fire Pit - Location 4 - 0-3"
- 9) Off Site (40 ft. of Fire Pit) soil just below turf - 0-3"
- 10) Drainage Ditch (upstream of Fire Pit drain) - 0-6" - 2 sq. ft.
- 11) Drainage Ditch (downstream of Fire Pit drain) - 0-6" - 2 sq. ft.



This report is submitted for the exclusive use of the person, partnership, or corporation to whom it is addressed. Subsequent use of the name of this company or any member of its staff in connection with the advertising or sale of any product or process will be granted only on contract. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

KCSlip4 61275

SEA428874

# Laucks

Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

Chemistry, Microbiology, and Technical Services



Certificate

PAGE NO 2

Boeing Co.

LABORATORY NO 84718

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Total Solids, %	52.7	65.6	73.4	71.9	54.3	59.2
	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	
Total Solids, %	63.5	57.2	80.2	85.5	75.3	

parts per million (mg/kg), dry basis

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Lead	150.	150.	28.	73.	140.	51.
PCBs	0.61*	0.43*	L/0.05*	0.42*	0.89*	0.30*
	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	
Lead	70.	150.	360.	56.	150.	
PCBs	2.5*	0.79*	---	---	---	
PCBs	---	---	0.10**	4.7**	8.9**	

\* Quantitated as Aroclor 1260, with obvious contribution from Aroclor 1254.

\*\*Quantitated as Aroclor 1254, with obvious contribution from Aroclor 1260.

Samples 2, 8, & 11 were also analyzed for Gravimetric Polycyclic Aromatic Hydrocarbons in accordance with Washington State Department of Ecology WAC 173-303. The method requires analysis of the sample through successive stages until the result obtained is less than 1% by weight (as received basis) or until the fourth stage has been completed. Results are as shown on following page.



This report is submitted for the exclusive use of the person, partnership, or corporation to whom it is addressed. Subsequent use of the name of this company or any member of its staff in connection with the advertising or sale of any product or process will be granted only on contract. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

KCSlip4 61276

SEA428875



# Laucks

## Testing Laboratories, Inc.

940 South Harney Street, Seattle, Washington 98108 (206) 767-5060

Chemistry, Microbiology, and Technical Services



## Certificate

PAGE NO. 3

Boeing Co.

LABORATORY NO 84718

### Stage:

### % by weight, as received basis\*

	<u>2</u>	<u>8</u>	<u>11</u>
1: Soxhlet Extraction	1.36	3.55	.38
2: Acid-base clean up	.57	.74	---

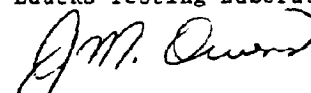
\*for 4,5,6 membered rings

### Key

L/ indicates "less than"

Respectfully submitted,

Laucks Testing Laboratories, Inc.

  
J M. Owens

JMO:vb



This report is submitted for the exclusive use of the person, partnership, or corporation to whom it is addressed. Subsequent use of the name of this company or any member of its staff in connection with the advertising or sale of any product or process will be granted only on contract. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

KCSlip4 61277

SEA428876

46 1240

K-E 20 X 20 TO THE INCH • 7 X 10 INCHES  
KUPPEL & ESSEN CO. MADE IN U.S.A.

